

Atlantic Richfield Company

Jack Oman
Project Manager

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December 5, 2014

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Dave Seter
Remedial Project Manager
U.S. Environmental Protection Agency Region 9
75 Hawthorne Street, SFD-9-1
San Francisco, CA 94105

**Subject: November 2014 Monthly Report, Yerington Mine Site, Lyon County, Nevada:
Administrative Order for Remedial Investigation and Feasibility Study (RI/FS),
CERCLA Docket No. 9-2007-0005; Administrative Order on Consent, CERCLA
Docket No. 09-2009-0010**

Dear Mr. Seter:

Pursuant to the above referenced orders issued by the U.S. Environmental Protection Agency - Region 9 (EPA), Atlantic Richfield Company (ARC) has prepared this November 2014 monthly report for RI/FS and Operations and Maintenance (O&M) activities at the Yerington Mine Site (Site).

November 2014 Activities

Site Security and O&M Activities

- Continued Site O&M, security and bird deterrent activities. Cameras at various locations (e.g., Main and Arimetco gates, entrances to buildings) indicated no activity of concern.
- Wind dancers, bird deterrent flags and Bird Gard towers continued to be deployed around the Pumpback Well System (PWS) Pond and the Lined Evaporation Pond (LEP). New wind dancers and bird wind dancer flags were installed to replace those damaged by strong winds.
- Balloons remained in place over FMS Evaporation Ponds B and C. To reduce birds becoming habituated to wind dancers and flags remaining in one location, these devices were re-located as needed, based on observations by Site O&M personnel. Bird Gard towers 'A', 'B' and 'C' remained in operation during November.
- Continued the EPA-approved bird mitigation schedule, with at least three monitoring visits per day at all ponds plus a fourth monitoring at the Arimetco FMS ponds. Observations were made within half an hour of dawn and dusk, with the other visits conducted mid-day (until the start of migratory bird season). All Wetland Wailer devices were operational through the month.
- PWS Pond water levels: North Cell = 0.0 feet; Middle Cell = 0.0 feet; South Cell = 0.0 feet.
- Arimetco FMS pond levels: Phase 1 Pond = 4.04 feet; FMS Evaporation Pond A = 9.12 feet; FMS Evaporation Pond B = 4.16 feet; FMS Evaporation Pond C = 4.09 feet; VLT Pond = 10.60 feet; Slot Pond = 15.86 feet. The freeboard level in FMS Evaporation Pond A on November 30 was approximately 1.02 feet. See attached monitoring data.
- Approximately 100,138 gallons of solution were transferred from the VLT Pond to FMS Evaporation Pond B in November. Approximately 23,857 gallons of solution were pumped from the leak detectors including 11,604 gallons from the VLT Pond and 8,473 gallons from the Slot Pond. Approximately 257,682 gallons of solution have been pumped from the leak detectors since January 1, 2014. See attached monitoring data.

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November 2014 Activities - Continued

Site Security and O&M Activities - Continued

- The FMS evaporation ponds were sampled on November 12.
- Desert Engineering inspected the ballasts for FMS Evaporation Ponds B and C on November 19.
- All valves on the Site were labeled with stainless steel tags to match mechanical equipment drawings.

Site Characterization Activities

- Monthly groundwater elevation measurements were obtained November 18-20 from new wells and wells with pressure transducers.
- A pit lake water elevation of 4231.88 feet amsl was recorded on November 18, 2014 from the pressure transducer, an increase of 0.03 feet since October 18, 2014. The pit lake elevation has risen 1.84 feet since November 18, 2013.
- No changes to the Bottled Water Program in November.
- Performed the 4Q 2014 domestic well monitoring event November 4-5.
- Continued to compile data for the 3Q 2014 domestic well and groundwater monitoring reports.
- Continued the compilation of field and laboratory data for inclusion in the data summary report (DSR) for the supplemental monitor well installation program, including the evaluation of 3Q 2014 hydrologic tracer data (all remaining ³⁴S and ¹⁸O in dissolved sulfate tracer data were received).
- Continued data compilation for the Process Areas (OU-3) soils characterization program.
- Performed utility locate surveys for planned boring locations around the Evaporation Ponds on November 11-13 and performed drill site prep work on November 6. Based on on-Site rainfall accumulations in November, other Evaporation Ponds FSAP activities were postponed to 2015.
- Continued geochemical modeling, using 3Q 2014 groundwater quality data, and preparation of the Geochemical Characterization Data Summary Report.
- Initiated a review of data quality objectives (DQOs) for the Wabuska Drain (OU-7) RI Work Plan.
- Routine database management activities in support of Site investigations and monitoring.

Planned December 2014/January 2015 Activities

Site Security and O&M Activities

- Continue routine Site O&M, security and bird deterrent activities.
- Work with NDEP and their contractor in accessing FMS Evaporation Pond A for solids sampling.

Site Characterization Activities

- Continue groundwater elevation and pit lake level measurements, and meteorological monitoring.
- Continue the Bottled Water Program.
- Transmit the 3Q 2014 domestic well and groundwater monitoring reports.
- Continue discussions with EPA regarding the proposed parameter reduction list for routine quarterly groundwater sampling.
- Continue to compile data for the 3Q 2014 domestic well and groundwater monitoring reports.
- Re-develop three monitor wells that exhibit elevated turbidity during groundwater sampling.
- Continue work on the Geochemical DSR.
- Initiate work on the Bedrock Work Plan including the conceptual site model.
- Continue the compilation of data from the characterization of Process Areas soils and, when complete, transmit the DSR.
- Initiate ground disturbance clearance activities for implementing the Evaporation Ponds Phase 1 FSAP, manually collect near-surface Pond sediment samples for geochemical characterization and initiate procurement of a drilling company and geotechnical laboratory for the remaining work.
- Continue to review DQOs for the Wabuska Drain (OU-7) RI Work Plan.
- Attend a Yerington Community Meeting on December 4.

Mr. Dave Seter
Yerington Monthly Report
December 5, 2014
Page 3 of 3

Please contact me at (714) 228-6774 or via e-mail at jack.oman@bp.com if you have any questions or comments about the November 2014 monthly report.

Sincerely,



Jack Oman
Project Manager

Attachment

cc: Harry Ball, EPA – via electronic mail
Dante Rodriguez, EPA – via electronic mail
Andrew Helmlinger, EPA – via electronic mail
Tom Dunkelman, EPA – via electronic mail
Jeff Collins, NDEP – via electronic mail
Jeryl Gardner, NDEP – via electronic mail
Tom Olsen, BLM – via electronic mail
Dan Newell, City of Yerington – via electronic mail
Phyllis Hunewill – via electronic mail
Virgil Arellano, Lyon County Commissioner – via electronic mail
Rob Loveberg, Lyon County Planning Department – via electronic mail
Tom Grady, Nevada State Assembly – via electronic mail
Chairwoman Howard, YPT – via electronic mail
Ginny Hatch, YPT – via electronic mail
Deborah Dunn, YPT – via electronic mail
Dietrick McGinnis, McGinnis and Associates – via electronic mail
Tom Bowden, Ridolfi, Inc. – via electronic mail
Chairwoman McFalls, WRPT – via electronic mail
Tad Williams, WRPT – via electronic mail
Ron Halsey, Atlantic Richfield Company – via electronic mail
James Nolan, Atlantic Richfield Company – via electronic mail
James Lucari, Atlantic Richfield Company – via electronic mail
Patricia Gallery, Atlantic Richfield Company – via electronic mail
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